

INDEX

NAMES OF CONTRIBUTORS ARE PRINTED IN SMALL CAPITALS

Adaptation, in *Ambystoma Opacum* Embryos to Development on Land, M. G. BROWN, 222; Cartilage in Embryonic, A. S. ROMER, 394; Where Does, Come In?, F. B. SUMNER, 433

Alleles, A Study of the Interaction of, at the Eyeless Locus, T. HINTON, 219

ALLEN, C. E., Regeneration, Development and Genotype, 225

ALPATOV, W. W., G. F. GAUSE and N. P. SMARAGDOVA, Variation in Paramecium and the Role of Stabilizing Selection in the Origin of Geographic Differences, 63

ANDERSON, B. G., H. LUMER and A. H. HERSH, On the Significance of the Constant b in the Law of Allometry $y = bx^a$, 364

ANTS, Tolerance in, L. J. LAFLEUR, 85

Artificial Selection, Further Progress with, H. D. GOODALE, 515

ASDELL, S. A., Accessory Reproductive Tract in Mammalian True Hermaphrodites, an Effect of Position, 75

BABCOCK, E. B., G. L. STEBBINS, JR. and J. A. JENKINS, Genetic Evolutionary Processes in *Crepis*, 337

BAILEY, R. M., An Intergeneric Hybrid Rattlesnake, 376

BARTO, E., A Second Occurrence of the Character Pink-Eye in the Deer Mouse, 634

BEAL, J. M., Induced Chromosomal Changes and Their Significance in Growth and Development, 239

Biometric Comparison of Several Samples, with Particular Reference to Racial Investigations, C. L. HUBBS and A. PERLMUTTER, 582

Blood Groups of Eurasians and Parasites in Calcutta, E. W. E. MACFARLANE, 520

BOWMAN, T. E., Morphological Color Change in the Crayfish, 332

BROWN, M. G., An Adaptation in *Ambystoma Opacum* Embryos to Development on Land, 222

BURKENROAD, M. D., Development and Relationships of Glyptoconchon, 421

Canaries, Bath Habits of, G. ECKSTEIN, 330

CATTELL, J., Editorial, 94

Chiasma Terminalization, Some Considerations on the Phenomenon of, C. P. SWANSON, 593

Chromatophores as Evidence of Phylogenetic Evolution, H. ELIAS, 405

Chromosomes, Structure of the Salivary Gland, and Its Meaning, R. GOLDSCHMIDT and M. KODANI, 529

CLAUSEN, J., W. M. HIESEY and D. D. KECK, Relations between Climate and Intra-Specific Variation in Plants, 5

COLE, L. J., and R. W. CUMLEY, Differentiation of Old and New World Species of the Genus *Columba*, 570

CORT, W. W., Human Factors in COTTERMAN, C. W., Biometrical Approach in Human Genetics, 144

Crayfish, Morphological Color Change in, T. E. BOWMAN, 332

Creeper Fowl, Studies on the, XIV, The Japanese Bantam Fowl, W. LANDAUER, 308

CUMLEY, R. W., and L. J. COLE, Differentiation of Old and New World Species of the Genus *Columba*, 570

DEMEREK, M., and B. P. KAUFMANN, Utilization of Sperm by the Female *Drosophila Melanogaster*, 445

Differentiation of Old and New World Species of the Genus *Columba*, R. W. CUMLEY and L. J. COLE, 570

Distribution and Origin of Some Eastern Oceania Insects, E. C. ZIMMERMAN, 280

Drosophila, Inheritance of a Subspecific Character in the Virilis Complex of, H. D. STALKER, 426

Drosophila Melanogaster, Effects of Humidity on Pupae, F. S. GEISLER, 223; Utilization of Sperm by the Female, B. P. KAUFMANN and M. DEMEREK, 445; Polymorph Mutant of, J. V. NEEL, 630

DUNN, E. R., Survival Value of Varietal Characters in Snakes, 104

DUNN, L. C., Changes in the Degree of Dominance of Factors Affecting Tail-Length in the House Mouse, 552

ECKSTEIN, G., Bath Habits of Canaries, 330

ELIAS, H., Chromatophores as Evidence of Phylogenetic Evolution, 405

Engrailed, A Pupal Lethal at High Temperature in *Drosophila Hydei*, W. P. SPENCER, 325

Evolution, Ecological Aspects of: Relations between Climate and Intra-Specific Variation in Plants, W. M. HIESEY, J. CLAUSEN and D. D. KECK, 5; Some Physiological Aspects of the Problem of Ecology and Evolution, J. VAN OVERBEEK, 23; Habitat Selection among Higher Vertebrates and Its Relation to Intraspecific Variation, A. H. MILLER, 25; Polyploid Complexes in Relation to Ecology and the History of Floras, 36; Theory, Two Decades of, A. F. SHULL, 171

Evolutionary Processes in Crepis, Genetic, E. B. BABCOCK, G. L. STEBBINS, JR. and J. A. JENKINS, 337

GAUSE, G. F., N. P. SMARAGDOVA and W. W. ALPATOV, Variation in *Paramcium* and the Role of Stabilizing Selection in the Origin of Geographic Differences, 63

GEISLER, F. S., Effects of Humidity on *Drosophila Melanogaster* Pupae, 223

Genes, Species, Variability and Plant-Breeding, O. E. WHITE, 191

Glyphocrangon, Development and Relationships of, M. D. BURKENROAD, 421

GOLDSCHMIDT, R., and M. KODANI, Structure of the Salivary Gland Chromosomes and Its Meaning, 529

GOODALE, H. D., Further Progress with Artificial Selection, 515

Growth and Differentiation in Plants: Regeneration, Development and Genotype, C. E. ALLEN, 225; Induced Chromosomal Changes and Their Significance in Growth and Development, J. M. REAL, 239; Problem of Internal Differentiation in Plants, E. W. SINNOTT, 253; Effects of Growth-Regulating Substances on Mobilization and Development, J. W. MITCHELL, 269

HAMILTON, W. J., JR., Winter Reduction of Small Mammal Populations and Its Probable Significance, 216

Hermaphrodites, Accessory Reproductive Tract in Mammalian True, an Effect of Position, S. A. ASDELL, 75

HERSH, A. H., H. LUMER and B. G. ANDERSON, On the Significance of the Constant b in the Law of Allometry $y = bx^a$, 364

HIESEY, W. M., J. CLAUSEN and D. D. KECK, Relations between Climate and Intra-Specific Variation in Plants, 5

HINTON, T., A Study of the Interaction of Alleles at the Eyeless Locus, 219

Homeosis, Phenomenon of, C. A. VILLE, 494

HUBBS, C. L., Reviews and Comments, 96, 208, 318, 415, 507, 611; and A. PERLMUTTER, Biometric Comparison of Several Samples, with Particular Reference to Racial Investigations, 582

Human Genetics: Mutant Gene in Man, L. H. SNYDER, 129; Biometrical Approach in Human Genetics, C. W. COTTERMAN, 144; Genetics of Human Populations, H. H. STRANDSKOV, 156; Future Possibilities in Human Genetics, L. S. PENROSE, 165

INGER, R. F., Differential Selection of Variant Juvenile Snakes, 527

JENKINS, J. A., E. B. BABCOCK and G. L. STEBBINS, JR., Genetic Evolutionary Processes in Crepis, 337

JENSEN, H. W., Abnormal Meiosis of Benzoin Aestivale in Relation to the Origin of Sex Chromosomes, 109

KAUFMANN, B. P., and M. DEMEREK, Utilization of Sperm by the Female *Drosophila Melanogaster*, 445

KECK, D. D., W. M. HIESEY and J. CLAUSEN, Relations between Climate and Intra-Specific Variation in Plants, 5

KODANI, M., and R. GOLDSCHMIDT, Structure of the Salivary Gland Chromosomes and Its Meaning, 529

LAFLEUR, L. J., Tolerance in Ants, 85

LANDAUER, W., Studies on the Creeper Fowl. XIV. The Japanese Bantam Fowl, 308

Law of Allometry $y = bx^a$, Significance of the Constant b in the H. LUMER, B. G. ANDERSON and A. H. HERSH, 364

LUMER, H., B. G. ANDERSON and A. H. HERSH, On the Significance of the Constant b in the Law of Allometry $y = bx^a$, 364

MACFARLANE, E. W. E., Blood Groups of Eurasians and Parsees in Calcutta, 520

METZ, C. W., Mosaic Salivary Glands in Sciria, 623

MILLER, A. H., Habitat Selection Among Higher Vertebrates and Its Relation to Intraspecific Variation, 25

MITCHELL, J. W., Effects of Growth-Regulating Substances on Mobilization and Development, 269

NEEL, J. V., Polymorph Mutant of *Drosophila Melanogaster*, 630

Nemertean *Gorgonorrhynchus*, Discovery of and Its Bearing on Evolutionary Theory, J. F. G. WHEELER, 470

O'MARA, J. G., A Photoperiodism Accompanying Autotetraploidy, 386

Parasite Ecology, Human Factors in, W. W. COTT, 113

PENROSE, L. S., Future Possibilities in Human Genetics, 165

PERLMUTTER, A., and C. L. HUBBS, Biometric Comparison of Several Samples, with Particular Reference to Racial Investigations, 582

Photoperiodism Accompanying Autotetraploidy, J. G. O'MARA, 386

Pink-Eye, in the Deer Mouse, A Second Occurrence of the Character, E. BARTO, 634

Pinus: Embryo Size Compared with Growth Rate, P. STOCKWELL, 431

Populations, Winter Reduction of Small Mammal, and Its Probable Significance, W. J. HAMILTON, JR., 216

Protozoa, Inheritance in Ciliate, T. M. SONNEBORN, 46

Rattlesnake, An Intergeneric Hybrid, R. M. BAILEY, 376

Reproduction of Viviparous Fishes, Diversity of Endocrine Function in, C. L. TURNER, 179

Reviews and Comments, C. L. HUBBS: The Course of Evolution, J. C. WILLIS, 96; Studies on the Physiology, Genetics, and Evolution of Some Cladocera, A. M. BANTA, 101; Salamanders of New York, S. C. BISHOP, 102; Variation, Isolation Mechanisms, and Hybridization in Certain Toads, A. P. BLAIR, Isolation Mechanisms in Tree Frogs, A. P. BLAIR, 102; Genetic and Endocrine Basis for Differences in Form and Behavior, C. R. STOCKARD and collaborators, 208; Speciation in the Avian Genus Junco, A. H. MILLER, 211; Adaptive Coloration in Animals, H. B. COTT, 318; College Entomology, E. O. ESSIG, 321; Immunity Against Animal Parasites, J. T. CULBERTSON, 321; Symposium on Criteria for Vertebrate Subspecies, Species and Genera, 322; American Society of Naturalists, 322; Conservation of Scholarly Journals, 323; Shorter Articles and Discussion, 324; Genes and Chromosomes Structure and Organization, Cold Spring Harbor Symposia on Quantitative Biology, 415; Mass Collections, E. ANDERSON, R. O. ERICKSON, N. C. FASSETT, 416; The Rat in Laboratory Investigation, Edited by J. Q. GRIFFITH, JR., and E. J. FARRIS, 416; Man and the Vertebrates, A. S. ROMER, 417; Strange New World, A. H. CHISHOLM, 418; Temperature and Evolution. Isolating Mechanisms. Genetic Control of Embryonic Development, Edited by T. DOBZHANSKY, 507; Visual Mechanisms, Edited by H. KÜPPER, 510; Genetics for Medical Students, E. B. FORD, 511; Fishes of Western South America, C. H. EIGENMANN and W. R. ALLEN, 512; Voles, Mice, and Lemmings; Problems in Population Dynamics, C. ELTON, 611; On Growth and Form, D. W. THOMPSON, 614; Problems of Aging, Edited by E. V. COWDRY, 616; Studies in the Genetics of *Drosophila*. II. Gene Variation and Evolution, Directed by J. T. PATTERSON, 617; Catalog of Human Crania in the United States National Museum Collections: Eskimo in General, A. HRDLIČKA, 617; Fading Trails. The Story of Endangered American Wildlife, D. B. BEARD, Chairman, 618; Comparative Vertebrate Anatomy, L. H. HYMAN,

619; Copepods of the Plankton Gathered During the Last Cruise of the *Carnegie*, Part I, C. B. WILSON, Part II, A. S. CAMPBELL, 620; Book Notices, 103, 214, 418, 513, 621
ROMER, A. S., Cartilage an Embryonic Adaptation, 394

Sciara, Mosaic Salivary Glands in, C. W. METZ, 623
Sex Chromosomes, Abnormal Meiosis of Benzoin Aestivale in Relation to the Origin of, H. W. JENSEN, 109
SHULL, A. F., Two Decades of Evolution Theory, 171
SINNOTT, E. W., Problem of Internal Differentiation in Plants, 253
SMARAGDOVA, N. P., G. F. GAUSE and W. W. ALPATOV, Variation in Paramecium and the Role of Stabilizing Selection in the Origin of Geographic Differences, 63
Snakes, Survival Value of Varietal Characters in, E. R. DUNN, 104; Differential Selection of Variant Juvenile, R. F. INGER, 527
SNYDER, L. H., Mutant Gene in Man, 129
SONNEBORN, T. M., Inheritance in Ciliate Protozoa, 46
SPENCER, W. P., Engrailed, A Pupal Lethal at High Temperature in *Drosophila Hydei*, 325
STALKER, H. D., Inheritance of a Subspecific Character in the Virilis Complex of *Drosophila*, 426
STERBINS, G. L., Jr., Polyploid Complexes in Relation to Ecology and the History of Floras, 36; E. B. BABCOCK and J. A. JENKINS, Genetic Evolutionary Processes in Crepis, 337
STOCKWELL, P., Pinus: Embryo Size Compared with Growth Rate, 431
STRANDSKOV, H. H., Genetics of Human Populations, 156
SUMNER, F. B., Where Does Adaptation Come in? 433
SWANSON, C. P., Some Considerations on the Phenomenon of Chiasma Terminalization, 593

Tail-Length in the House Mouse, Changes in the Degree of Dominance of Factors Affecting, L. C. DUNN, 552
TURNER, C. L., Diversity of Endocrine Function in the Reproduction of Viviparous Fishes, 179

VAN OVERBEEK, J., Some Physiological Aspects of the Problem of Ecology and Evolution, 23
Variation in Paramecium and the Role of Stabilizing Selection in the Origin of Geographic Differences, G. F. GAUSE, N. P. SMARAGDOVA and W. W. ALPATOV, 63
VILLEE, C. A., Phenomenon of Homoeosis, 494

WHEELER, J. F. G., Discovery of the Nemertean *Gorgonorynchus* and Its Bearing on Evolutionary Theory, 470
WHITE, O. E., Genes, Species, Variability and Plant Breeding, 191

ZIMMERMAN, E. C., Distribution and Origin of Some Eastern Oceanic Insects, 280

